

IN THE CLAIMS

The following is a complete listing of the claims in this application, reflects all changes currently being made to the claims, and replaces all earlier versions and all earlier listings of the claims:

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1. (Currently Amended) ~~Method~~ A method of compressing a digital format in which information representing a physical quantity is accompanied by predictable data ~~and whose~~ having a value is independent of that of the information representing a physical quantity, ~~characterised in that it includes~~ comprising an operation (1103) of reducing the number of ~~said~~ the predictable data, the data and information representing a physical quantity resulting from this reduction operation being capable of allowing the reconstitution of predictable data accompanying the information representing a physical quantity, in accordance with the ~~said~~ digital format.

2. (Currently Amended) ~~Compression~~ The method according to Claim 1, ~~characterised in that~~ which the reduction operation (1103) includes:

- = a step of removing predictable data, and
- = a step of inserting ~~so-called~~ substitution data, ~~whose~~ having a number is less than the number of data removed during ~~the~~ said removal step.

3. (Currently Amended) ~~Compression~~ The method according to Claim 2, the digital format including successive repetitions at least one of data ~~and/or~~ and an iterative series of data, ~~characterised in that~~ which:

= during the removal operation (1103), at least two data items of ~~said~~ the repetitions or ~~said~~ the series are removed, and

= during the insertion operation, at least one data item of ~~said~~ the repetitions or ~~said~~ the series is inserted, in a header relating to all the information to be transmitted.

4. (Currently Amended) ~~Compression~~ The method according to either one of Claims 2 or 3, ~~characterised in that~~ which, during the removal operation (1103), reserved data are removed.

5. (Currently Amended) ~~Compression~~ The method according to any one of Claims 2 or 3, ~~characterised in that~~ which, during the removal operation (1103), identifiers of parts of a set of data are removed.

6. (Currently Amended) ~~Compression~~ The method according to Claim 5, ~~characterised in that~~ which, during the operation of inserting ~~so-called~~ the substitution data, an identifier for at least one of the parts of ~~said~~ the set of data is inserted.

7. (Currently Amended) ~~Compression~~ The method according to any one of Claims 1 to 3, ~~characterised in that~~ which the ~~said~~ format is the DV format.

8. (Currently Amended) ~~Compression~~ The method according to any one of Claims 1 to 3, ~~characterised in that it includes~~ further comprising an operation of

transmitting at a distance data resulting from the reduction operation, over a wireless transmission channel.

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9. (Currently Amended) ~~Compression~~ The method according to any one of Claims 1 to 3, ~~characterised in that it includes~~ further comprising an operation of inserting data and information resulting from ~~said~~ the reduction operation, in a frame corresponding to a wireless communication protocol.

10. (Currently Amended) ~~Compression~~ The method according to Claim 8, ~~characterised in that it includes~~ further comprising an operation of transmitting at a distance data resulting from the reduction operation, over a radio transmission channel.

11. (Currently Amended) ~~Compression~~ The method according to Claim 8, ~~characterised in that it includes~~ further comprising an operation of transmitting at a distance data resulting from the reduction operation, over an optical transmission channel.

12. (Currently Amended) ~~Compression~~ The method according to any one of Claims 1 to 3, ~~characterised in that it includes~~ further comprising an operation of recording, on a data medium, data resulting from the reduction operation.

13. (Currently Amended) ~~Compression~~ The method according to any one of Claims 1 to 3, ~~characterised in that it includes~~ further comprising, as a preliminary to ~~said~~ the reduction operation, an operation of reading predictable data and information

representing a physical quantity, and an operation performed by a reading of data in the DIF format.

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14. (Currently Amended) ~~Compression~~ The method according to any one of Claims 1 to 3, ~~characterised in that it includes~~ further comprising, as a preliminary to ~~said the~~ reduction operation, an operation of reading predictable data and information of representing a physical quantity, on an IEEE 1394 bus.

15. (Currently Amended) ~~Data~~ A data and information processing method in which a physical quantity is represented by a predetermined quantity of data and information, ~~characterised in that it includes~~ the method comprising the steps of:

- = ~~an operation of~~ estimating ~~the a~~ need to reduce ~~the a~~ quantity of data and information representing a physical quantity, and
- = when ~~the said~~ reduction is necessary, implementing a compression method ~~as briefly disclosed above~~ according to any one of Claims 1 to 3.

16. (Currently Amended) ~~Processing~~ The method according to Claim 15, ~~characterised in that it also includes~~ further comprising:

- = an operation of estimating ~~the a~~ need for compression of information representing a physical quantity, and
- = when ~~said the~~ compression is necessary, an operation of compressing the information representing a physical quantity.

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17. (Currently Amended) ~~Method~~ A method for transmitting information representing a physical quantity, wherein the information is accompanied by predictable data, according to a predetermined digital format, characterised in that it includes the method comprising:

= an operation of reducing the number of ~~said~~ the predictable data, the data and information representing a physical quantity resulting from this reduction operation being able to allow ~~the~~ reconstitution of predictable data accompanying the information representing a physical quantity, in accordance with ~~said~~ the digital format,

= an operation of receiving ~~said~~ the information and ~~said~~ the data resulting from the reduction operation,

= an operation of reconstituting predictable data in accordance with ~~said~~ the digital format, ~~said~~ the reconstituted predictable data representing ~~said~~ the received data and being independent of ~~said~~ the information and greater in number than the number of data items received, and

= an operation of ~~organising~~ ~~said~~ organizing the reconstituted predictable data and ~~said~~ the information, in accordance with ~~said~~ the digital format.

18. (Currently Amended) ~~Method~~ A method of recording information representing a physical quantity, ~~characterised in that it includes~~ comprising:

= an operation of reducing the number of ~~said~~ the predictable data, the data and information representing a physical quantity resulting from this reduction operation being able to allow the reconstitution of predictable data accompanying the information representing a physical quantity, in accordance with ~~said~~ the digital format,

= an operation of recording data and information representing a physical quantity resulting from this reduction operation, on a recording medium,

= an operation of reading ~~said the~~ information and ~~said the~~ data resulting from the reduction operation, on ~~said the~~ recording medium,

= an operation of reconstituting predictable data in accordance with ~~said the~~ digital format, ~~said the~~ reconstituted predictable data representing ~~said the~~ read data and being independent of ~~said the~~ information and greater in number than the number of received data, and

= an operation of ~~organising said~~ organizing the reconstituted predictable data and ~~said the~~ information, in accordance with ~~said the~~ digital format.

19. (Currently Amended) ~~Method~~ The method according to Claim 18, ~~characterised in that it includes further comprising~~ an operation of determining ~~the a~~ reduction mode, during which at least one of the data items ~~and/or and~~ information items to be transmitted is taken into account in order to determine a reduction mode and ~~in that~~, during the reduction operation, the reduction mode determined during the reduction mode determination operation is used.

20. (Currently Amended) ~~Method~~ The method according to any one of Claims 18 or 19, ~~characterised in which that~~ the data resulting from the reduction operation includes at least one data item representing a reduction mode used during the operation of reducing at least one of the predictable data ~~and/or and~~ the transmitted information.

21. (Currently Amended) ~~Method~~ A method of receiving information

representing a physical quantity accompanied by data ~~whose~~ having a value is independent of that of ~~said the~~ information, ~~said the~~ information and data being intended to be conformed according to a predetermined digital format, ~~characterised in that it includes~~ comprising:

= an operation of reading at least part of ~~said the~~ received data,

= an operation of determining predictable data representing the received data and ~~whose~~ having a value is independent of that of the information, ~~said the~~ predictable data being greater in number than the number of received data, and

= an operation of ~~organising~~ said organizing the predictable data and ~~said the~~ information, ~~said-organisation~~ the organization being in accordance with ~~said the~~ digital format and causing predictable data and information to alternate.

22. (Currently Amended) ~~Method~~ A method of receiving information

representing a physical quantity, ~~organised~~ organized in accordance with a first structure including ~~said the~~ information and ~~so-called "structural"~~ structural data, in frames in accordance with a second structure and also including complementary data, ~~characterised in that it includes~~ comprising:

= an operation of marking ~~said the~~ information in ~~said the~~ frames, and

= an operation of marking ~~said the~~ structural data in ~~said the~~ frames,

= an operation of determining ~~so-called~~ "predictable"

predictable data ~~whose having a~~ value is independent of ~~said the~~ information and ~~said the~~ complementary data, ~~said the~~ predictable data representing structural data, and

= an operation of ~~organising~~ organizing, in accordance with a third structure, ~~said the~~ information and ~~said the~~ predictable data.

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23. (Currently Amended) ~~Method~~ The method of receiving information according to Claim 22, ~~characterised in which that~~, during the marking operation, the second structure is that of a wireless transmission protocol.

24. (Currently Amended) ~~Method~~ The method of receiving information according to either one of Claims 22 or 23, ~~characterised in which that~~, during the ~~organisation~~ organization operation, the third structure is that of a protocol for transmitting or storing digital images.

25. (Currently Amended) ~~Method~~ A method of transmitting information representing a physical quantity, ~~characterised in that it includes~~ comprising:

= an operation of determining data intended to accompany ~~said the~~ information, ~~data whose having a~~ value is independent of that of ~~said the~~ information,

= an operation of sending or storing ~~said the~~ information and ~~said the~~ data,

= an operation of receiving or reading, respectively, ~~said the~~ information representing a physical quantity, accompanied by ~~said the~~ data,



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- = an operation of reading at least part of ~~said~~ the received data,
- = an operation of determining predictable data representing received data and ~~whose~~ having a value is independent of that of the information, ~~said~~ the predictable data being greater in number than the number of received data, and
- = an operation of ~~organising~~ said organizing the predictable data and ~~said~~ the information, ~~said~~ organisation the organization being in accordance with ~~said~~ the digital format alternating predictable data and information.

26. (Currently Amended) ~~Device for~~ A device compressing a digital format in which information representing a physical quantity is accompanied by predictable data ~~whose~~ having a value is independent of that of the information representing a physical quantity, ~~characterised in that it includes a~~ comprising means ~~of~~ for reducing the number of ~~said~~ the predictable data, the data and information representing a physical quantity resulting from this reduction being able to allow the reconstitution of predictable data accompanying the information representing a physical quantity, in accordance with ~~said~~ the digital format.

27. (Currently Amended) ~~Compression~~ The device according to Claim 26, characterised in that which the reduction means has:

- = a means ~~of~~ for removing predictable data, and
- = a means ~~of~~ for inserting ~~so-called~~ substitution data, ~~whose~~ having a number is less than the number of data removed by the removal means.

28. (Currently Amended) ~~Compression~~ The device according to Claim 27, the digital format containing successive repetitions of data and/or iterative series of data, characterised in that which:

= the removal means is adapted to remove at least two data of said the repetitions or said the series, and

= the insertion means is adapted to insert at least one data of said the repetitions or said the series, in a header relating to all the information to be transmitted.

29. (Currently Amended) ~~Compression~~ The device according to either one of Claims 27 or 28, characterised in that which the removal means is adapted to remove reserved data.

30. (Currently Amended) ~~Compression~~ The device according to any one of Claims 27 or 28, characterised in that which the removal means is adapted to remove identifiers of parts of a set of data.

31. (Currently Amended) ~~Compression~~ The device according to Claim 30, characterised in that which the means of inserting so-called the substitution data is adapted to insert an identifier for at least one of the parts of said the set of data.

32. (Currently Amended) ~~Compression~~ The device according to any one of Claims 26 to 28, characterised in that said which the format is the DV format.

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33. (Currently Amended) ~~Compression~~ The device according to any one of Claims 26 to 28, ~~characterised in that it includes a~~ further comprising means of for transmitting at a distance data resulting from ~~said~~ the reduction, over a wireless transmission channel.

34. (Currently Amended) ~~Compression~~ The device according to any one of Claims 26 to 28, ~~characterised in that it includes a~~ further comprising means of for inserting data and information resulting from ~~said~~ the reduction, in a frame corresponding to a wireless communication protocol.

35. (Currently Amended) ~~Compression~~ The device according to Claim 33, ~~characterised in that it includes a~~ further comprising means of for transmitting at a distance data resulting from ~~said~~ the reduction, on a radio transmission channel.

36. (Currently Amended) ~~Compression~~ The device according to Claim 33, ~~characterised in that it includes a~~ further comprising means of for transmitting at a distance data resulting from ~~said~~ the reduction, on a an optical transmission channel.

37. (Currently Amended) ~~Compression~~ The device according to any one of Claims 26 to 28, ~~characterised in that it includes a~~ further comprising means of for recording, on a data medium, data resulting from ~~said~~ the reduction.

38. (Currently Amended) ~~Compression~~ The device according to any one of Claims 26 to 28, ~~characterised in that it includes a~~ further comprising means ~~of for~~ reading data in the DIF format.

39. (Currently Amended) ~~Compression~~ The device according to any one of Claims 26 to 28, ~~characterised in that it has~~ further comprising means ~~of for~~ reading on an IEEE 1394 bus.

40. (Currently Amended) ~~Data~~ A data and information processing device, ~~characterised in that it has~~ comprising:

- = a means ~~of for~~ estimating the need for reduction in the quantity of data and information representing a physical quantity, and
- = a compression device according to any one of Claims 26 to 28,
- = the estimation means being adapted to use ~~said the~~ compression device when ~~it considers that said the~~ reduction is necessary.

41. (Currently Amended) ~~Processing~~ The device according to Claim 40, ~~characterised in that it also has~~ further comprising:

- = a means ~~of for~~ estimating the need for compression of information representing a physical quantity, and
- = a means ~~of for~~ compressing information representing a physical quantity,

= the estimation means being adapted to use ~~said the~~ compression device when ~~it considers that said the~~ compression is necessary.

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42. (Currently Amended) ~~Device for~~ A device receiving information representing a physical quantity accompanied by data ~~whose~~ having a value is independent of that of ~~said the~~ information, ~~said the~~ information and data being intended to be conformed according to a predetermined digital format, ~~characterised in that it has~~ comprising:

- = a means ~~of~~ for reading at least part of ~~said the~~ received data,
- = a means ~~of~~ for determining predictable data representing received data and ~~whose~~ having a value is independent of that of the information, ~~said the~~ predictable data being greater in number than the number of received data, and
- = a means ~~of organising said~~ for organizing the predictable data and ~~said the~~ information, ~~said organisation~~ the organization being in accordance with ~~said the~~ digital format and causing predictable data and information to alternate.

43. (Currently Amended) ~~Device recording~~ A device recording information representing a physical quantity, ~~characterised in that it includes~~ comprising:

- = a means ~~of~~ for reducing the number of ~~said the~~ predictable data, the data and information representing a physical quantity resulting from this reduction being able to allow the reconstitution of predictable data accompanying the information representing a physical quantity, in accordance with ~~said the~~ digital format,

= a means ~~of~~ for recording data and information representing a physical quantity resulting from this reduction, on a recording medium,

= a means ~~of~~ for reading ~~said the~~ information and ~~said the~~ data resulting from the reduction operation, on ~~said the~~ recording medium: ,

= a means ~~of~~ for reconstituting predictable data in accordance with ~~said the~~ digital format, ~~said the~~ reconstituted predictable data representing ~~said the~~ read data and being independent of ~~said the~~ information and greater in number than the number of received data, and

= a means ~~of organising~~ ~~said~~ for organizing the reconstituted predictable data and ~~said the~~ information, in accordance with ~~said the~~ digital format.

44. (Currently Amended) ~~Device for~~ A device decompressing information representing a physical quantity ~~organised~~ organized in a first structure including ~~said the~~ information and ~~so-called "structural"~~ structural data, in frames in accordance with a second structure and also including complementary data, ~~characterised in that it has~~ comprising:

= a marking means, adapted: • to mark ~~said the~~ information in ~~said the~~ frames, and • to mark ~~said the~~ structural data in ~~said the~~ frames,

= a means ~~of~~ for determining ~~so-called "predictable"~~ predictable data ~~whose having a value is independent of~~ ~~said the~~ information and ~~said the~~ complementary data, ~~said the~~ predictable data representing structural data, and

= a means ~~of organising~~ for organizing, in a third structure, ~~said the~~ information and ~~said the~~ predictable data.

45. (Currently Amended) ~~Information decompression~~ The device according to Claim 44, ~~characterised in that~~ which the marking means is adapted to mark ~~said the~~ the information and ~~said the~~ the structural data in a second structure which is that of a wireless transmission protocol.

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46. (Currently Amended) ~~Information decompression~~ The device according to either one of Claims 44 or 45, ~~characterised in that~~ which the ~~organisation~~ organization means is adapted to ~~organise-said~~ organize the information and ~~said the~~ the predictable data in a third structure which is that of a digital image storage or transmission protocol.

47-52. (Canceled)

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